Southern States
The Quality Name in High Voltage Switching



**CATALOG FLYER**


# *CapSwitcher*®

**Capacitor**
**Switching Device**
**15 kV – 38 kV**

## Purpose specific device provides reliable, long-life performance.

The need for quality power has never been greater. This has led to an increase in the use of capacitor banks to improve power factor. The Southern States ***CapSwitcher***® high voltage capacitor switching device has been specifically developed to provide restrike free switching of capacitor banks. This reliable, long-life, special purpose $SF_6$ capacitor switch utilizes closing resistors for mitigating voltage transients and current inrush.

## FEATURES

- Closing resistors minimize voltage and current transients
- Design virtually eliminates restrikes
- Simple, cost effective, mechanical design that provides repeatability
- Long Life (10,000 operations)
- Eliminates need for inrush reactors

## SPECIFICATIONS

**Maximum Voltage Ratings**
15.5 kV – 38 kV

**Capacitive Current Switch Rating**
600 A

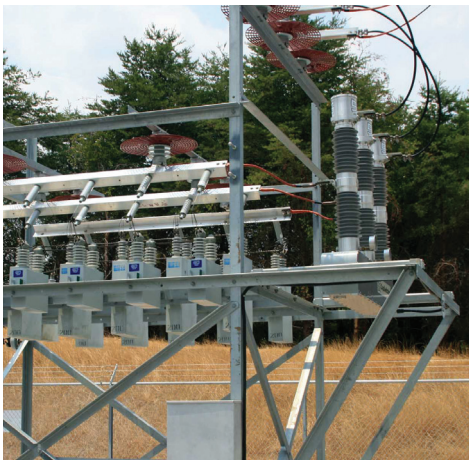
**Short Time Withstand Ratings**
40 kA RMS Sym (2 sec)

**Peak capacitive Inrush Current**
23 kA @ 5400 Hz

**Application**
Single Bank or Back-to-Back
Grounded or Ungrounded

# CapSwitcher®

**Capacitor Switching Device 15 kV – 38 kV**

| RATINGS | | | |
|---|---|---|---|
| Maximum Voltage Rating (kV) | 15.5 | 27 | 38 |
| BIL (kV) | 110 | 150 | 200 |
| Rated Power Frequency | 50/60 Hz | | |
| Continuous Current | 600 A | | |
| Capacitive Switching Current | 600 A | | |
| Short-Time Symmetrical Withstand | 40 kA RMS | | |
| Rated High-Frequency Transient-Making Current | 42 kA peak at 8100 Hz | | |
| Endurance Life | 10,000 operations | | |
| Ambient Temperature Rating | -50° C to +50° C standard | | |

| Capacitor Switching Ratings (IEEE C37.09a-2005) | | | |
|---|---|---|---|
| Maximum Voltage Rating (kV) | 15.5 | 27 | 38 |
| Capacitive Switching Current | 600 A | | |
| High Frequency Transient Making Current | 23 kA peak at 5400 Hz | | |
| Closing Resistor Value | Matched to bank size for optimum performance * | | |

* See Application Guide Document

## KEY ADVANTAGES

- Makes and breaks circuit in $SF_6$
- Designed and tested for restrike-free performance
- Closing resistors provide reliable and consistently repeatable transient suppression
- Multiple resistor sizes allow performance optimization
- Closing resistor eliminates need for inrush reactors
- Pressure gauge on each interrupter provides local visual gas system status
- Designed to mount on new or existing capacitor bank racks
- Straight forward mechanical design insures long life, repeatable operation
- Ships assembled and pressurized minimizing installation and setup

**Rated Duty Cycle:**

- Fast Close (includes Close Coil): C – 6 cycle – O – 8 sec

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